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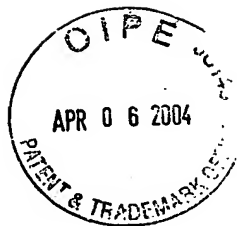
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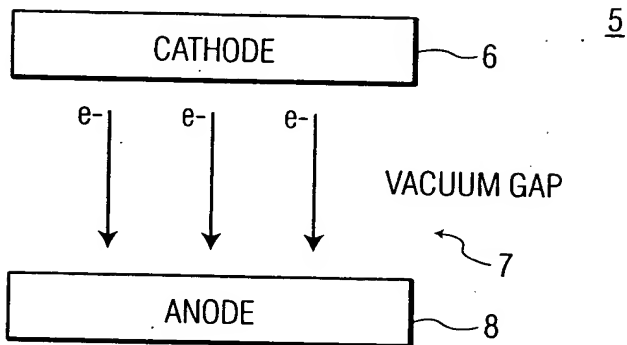


FIG. 1

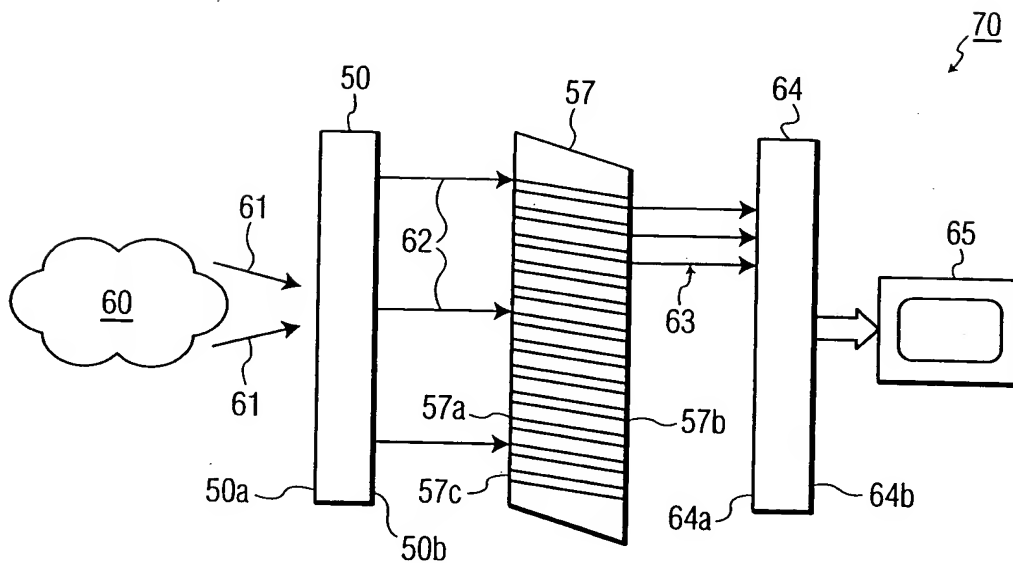


FIG. 2

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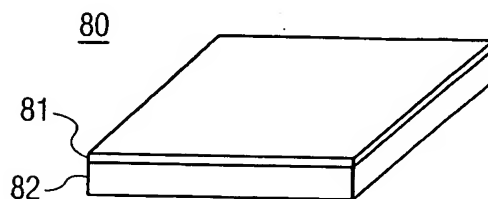


FIG. 3A

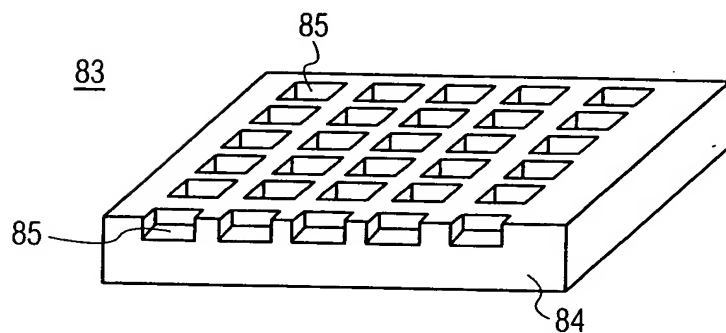


FIG. 3B

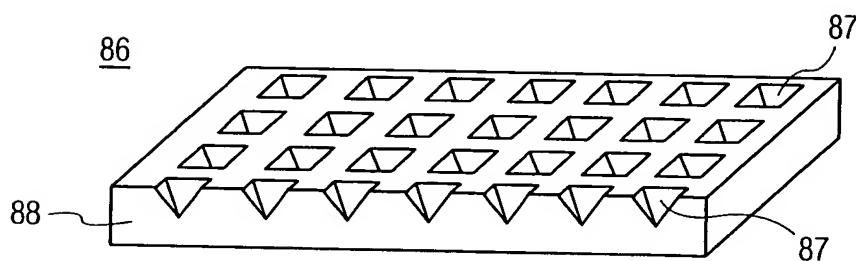


FIG. 3C

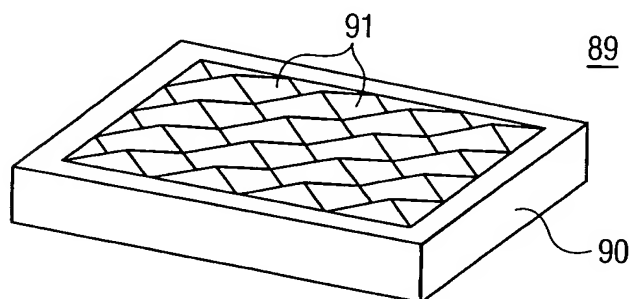


FIG. 3D

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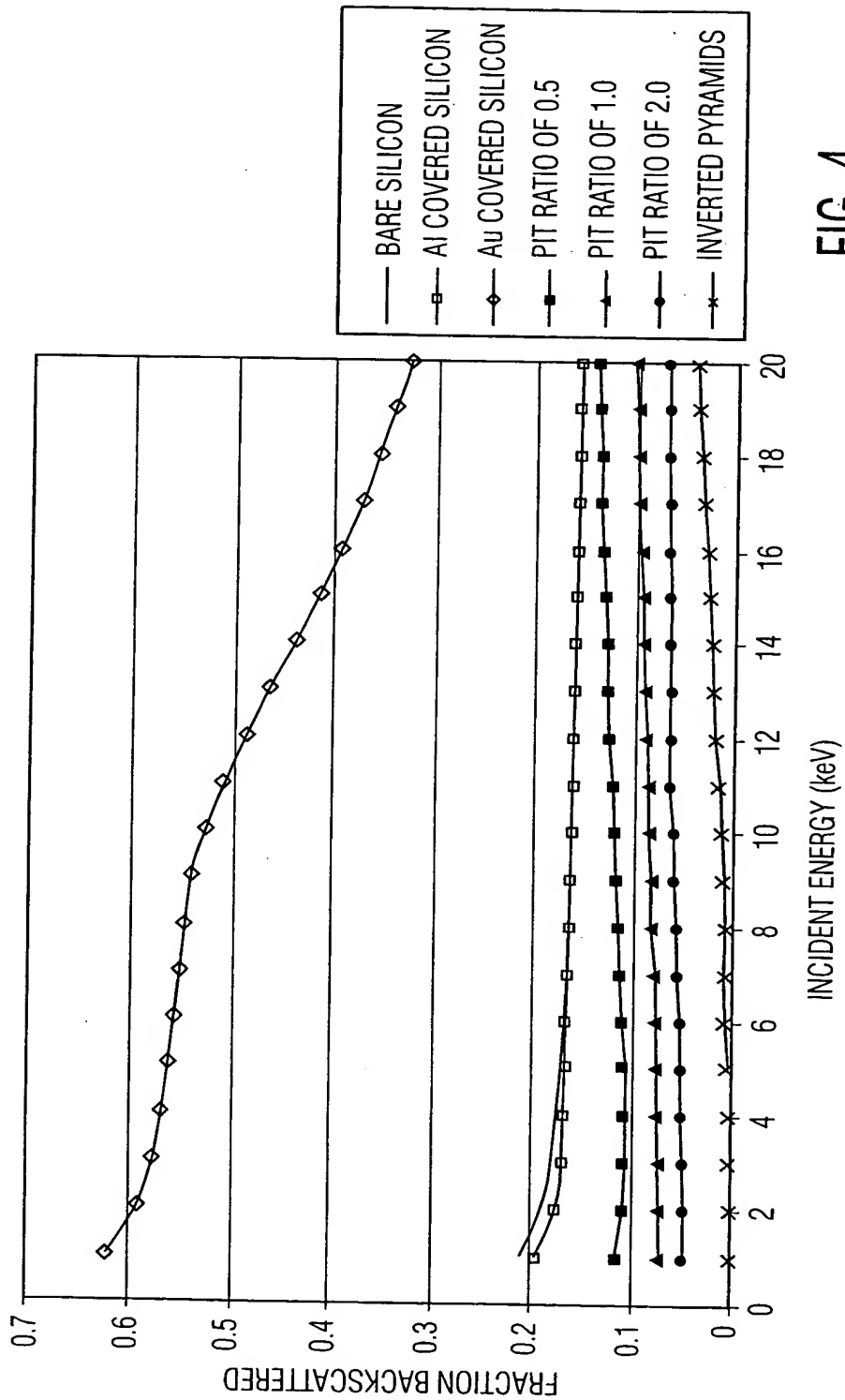


FIG. 4

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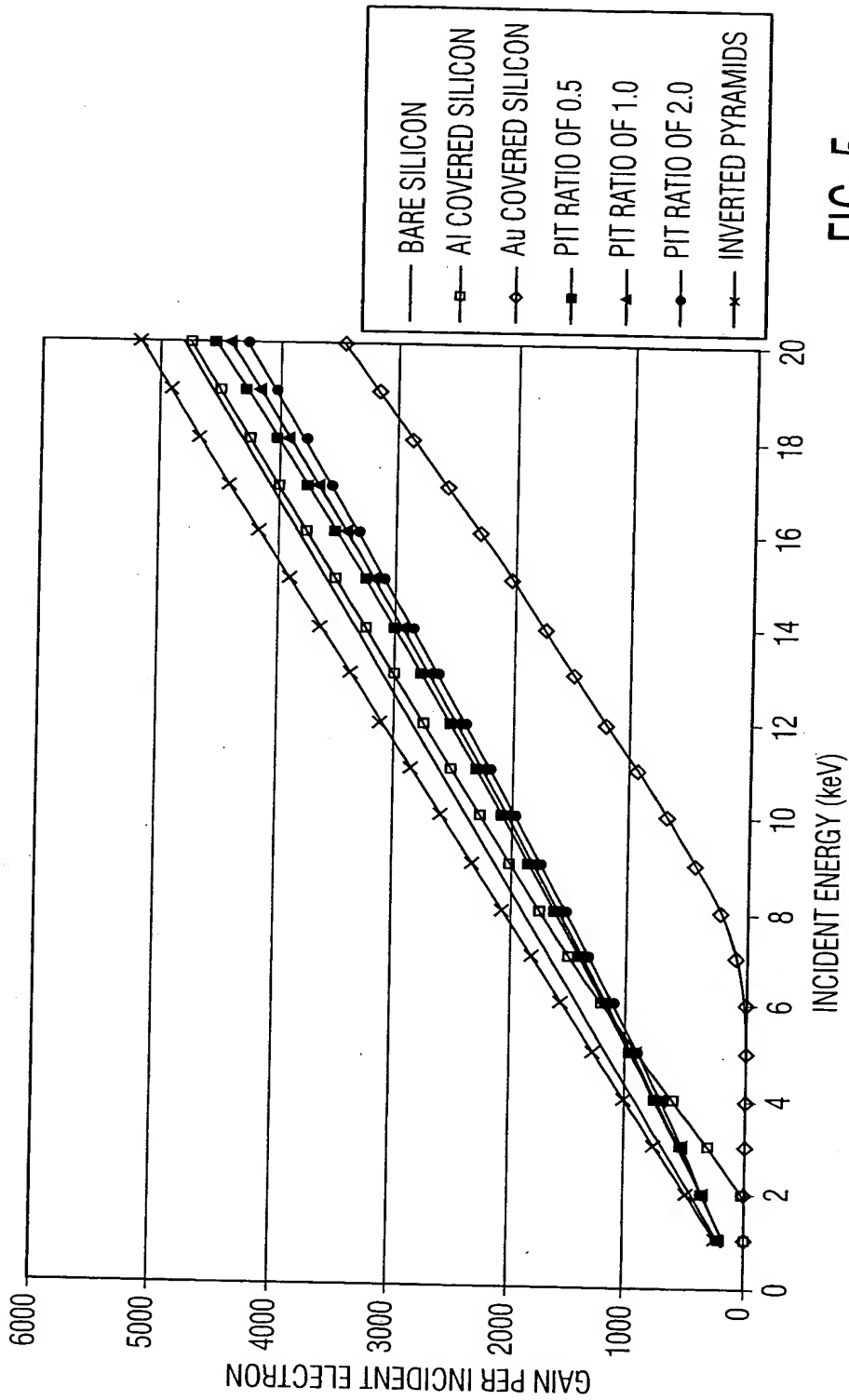
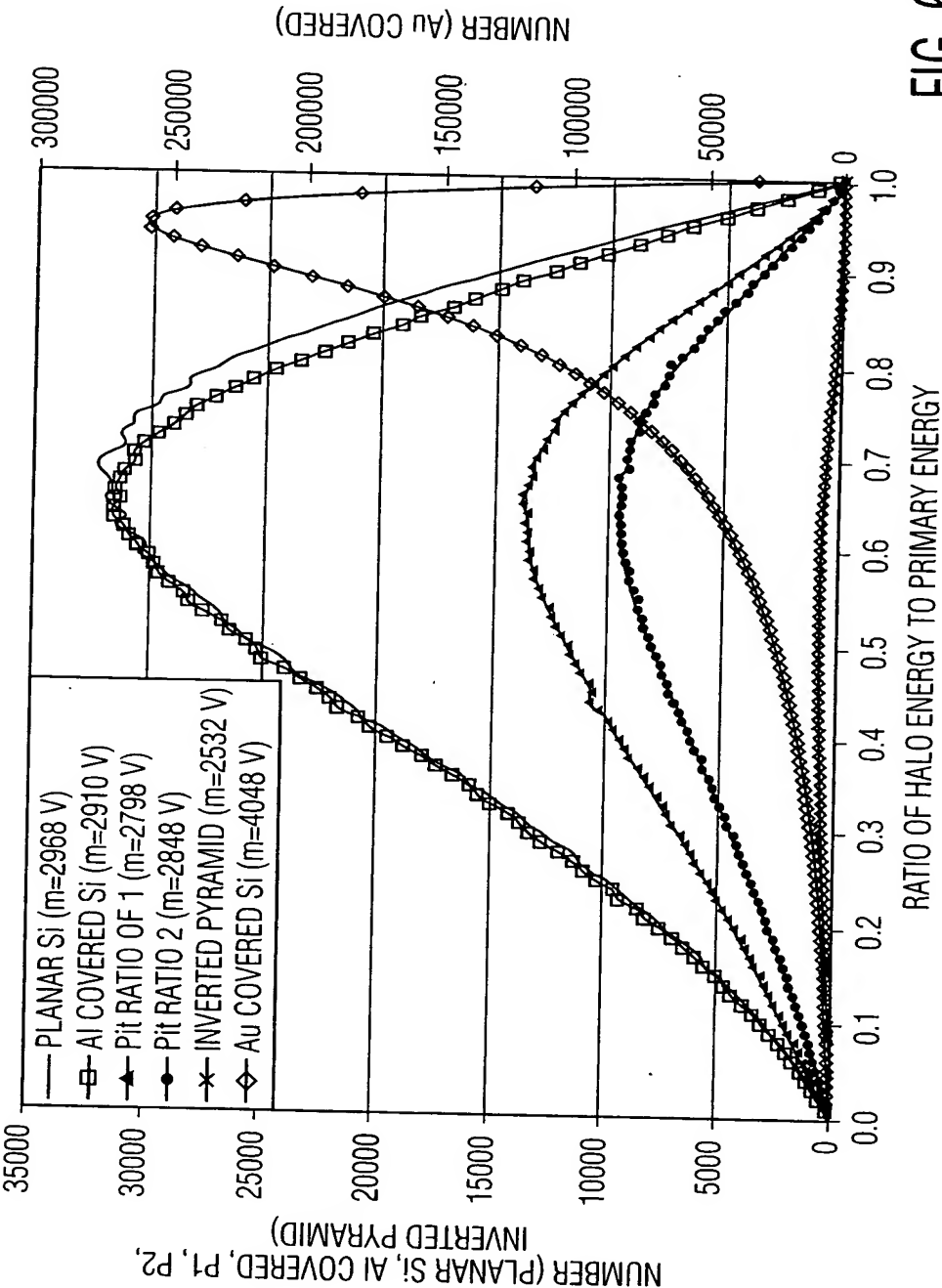


FIG. 5

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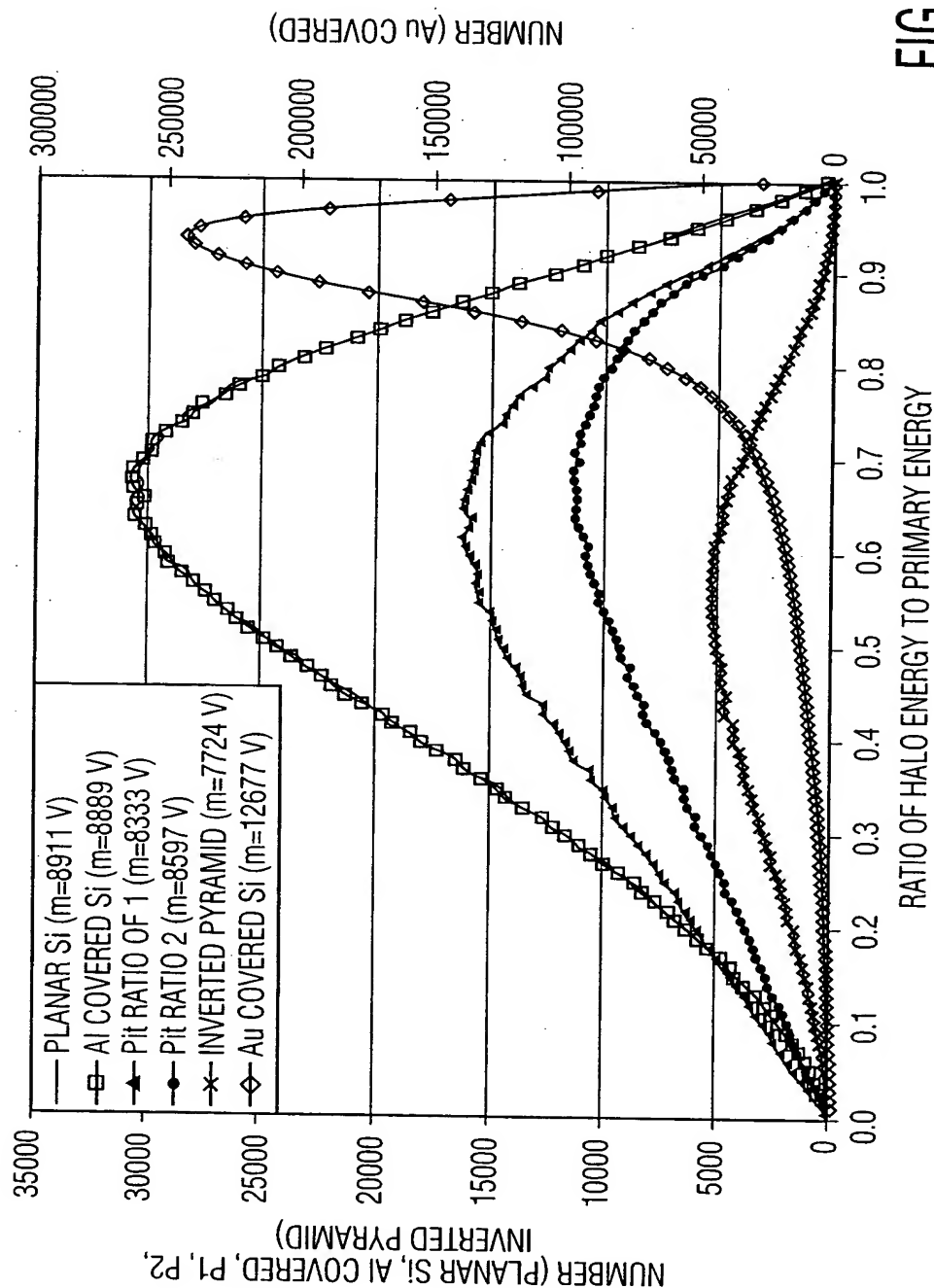


FIG. 6B

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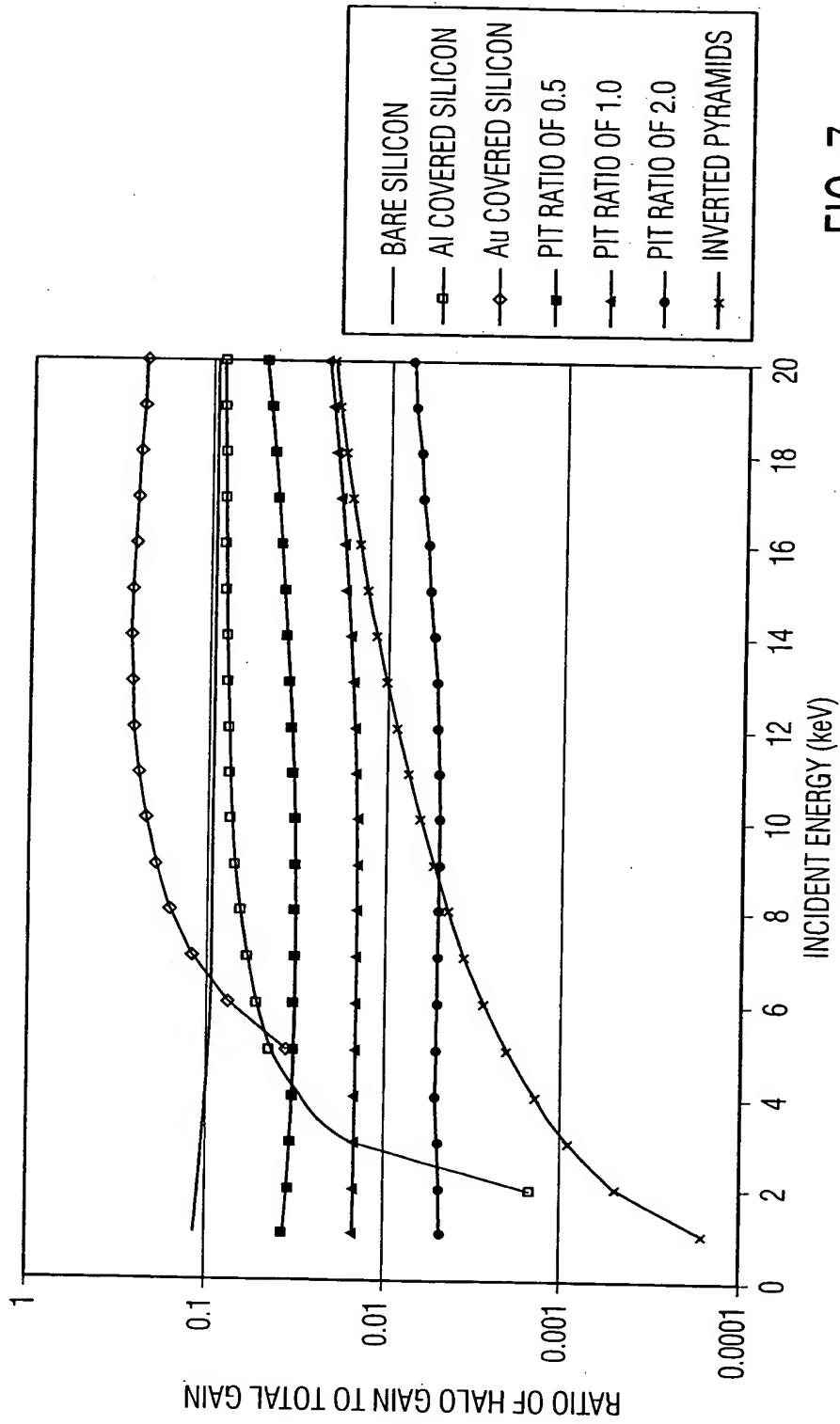
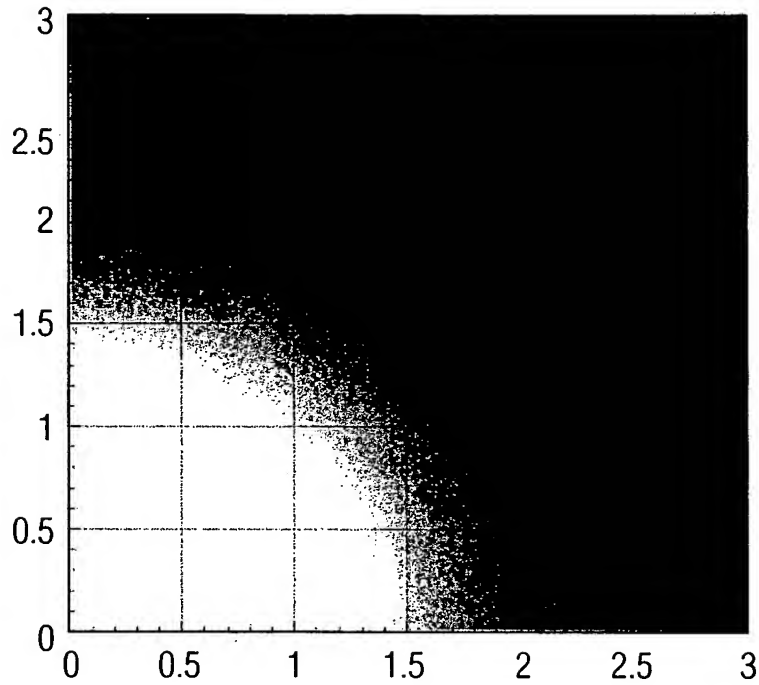


FIG. 7

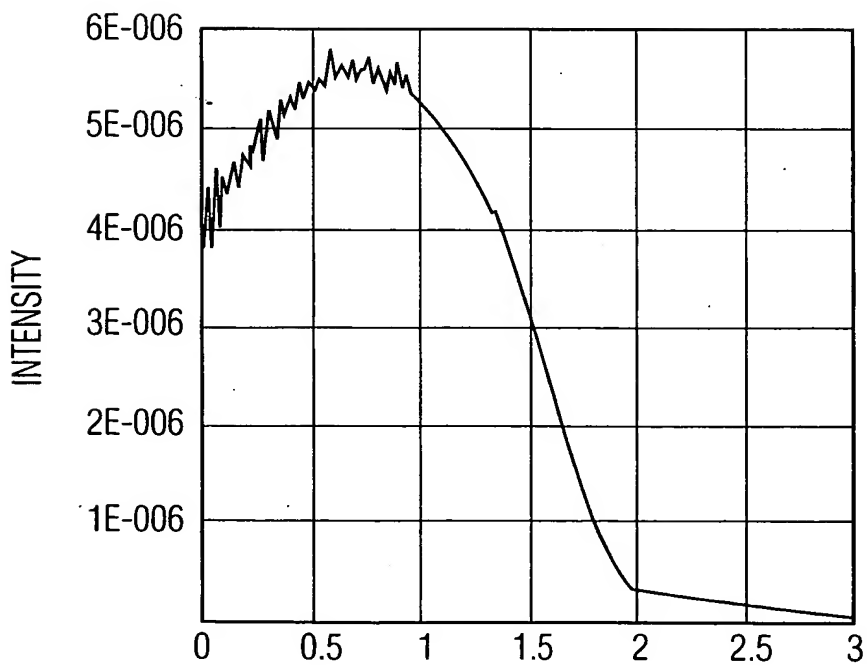


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PLANAR SILICON

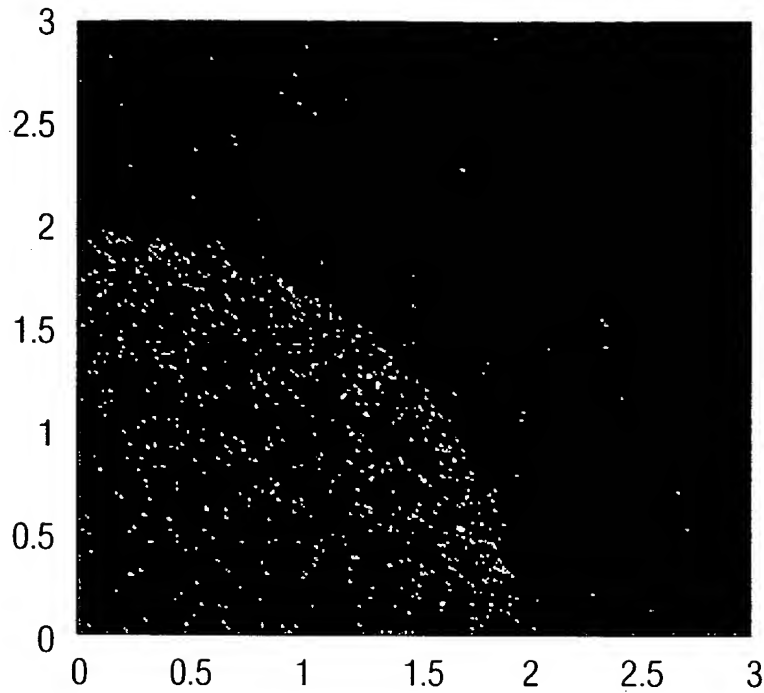
FIG. 8A1



PLANAR SILICON

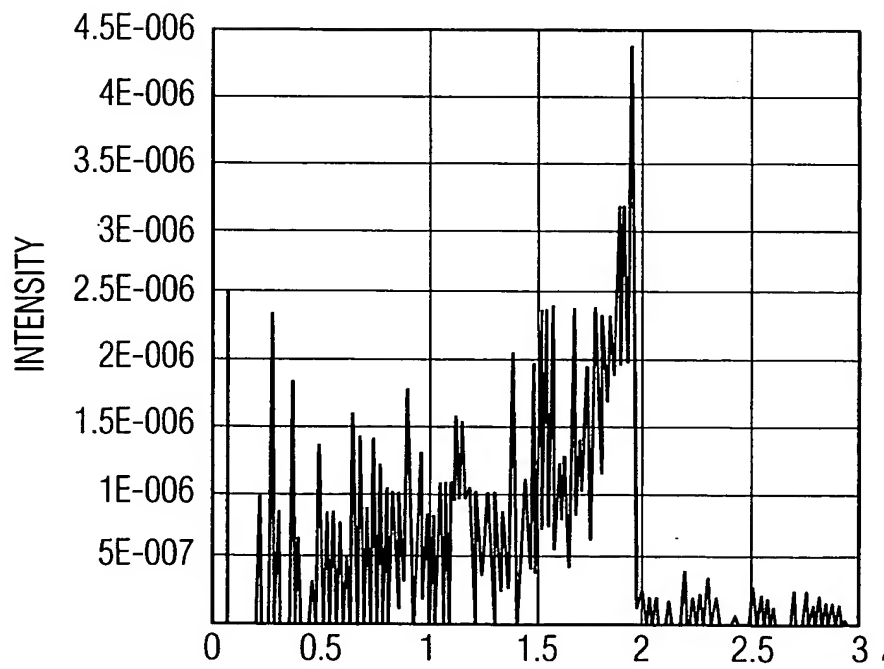
FIG. 8A2

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PLANAR SILICON WITH 500 Å Au OVERCOAT

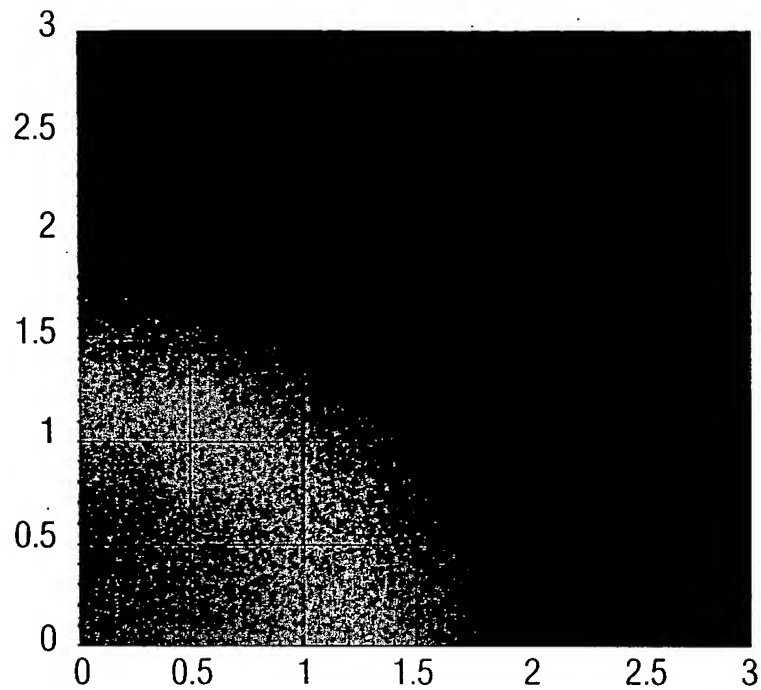
FIG. 8B1



PLANAR SILICON WITH 500 Å Au OVERCOAT

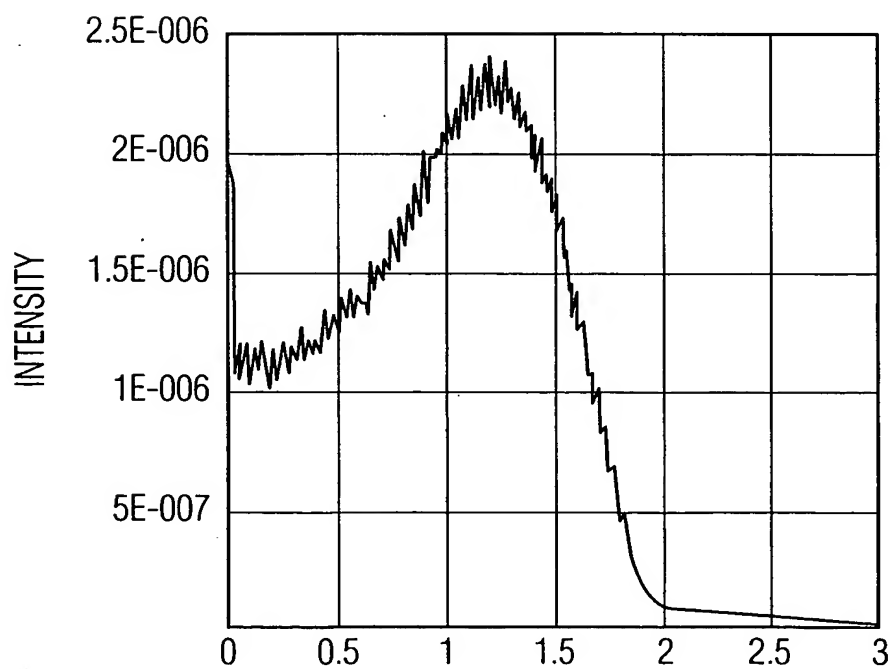
FIG. 8B2

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PLANAR SILICON WITH 500 Å AI OVERCOAT

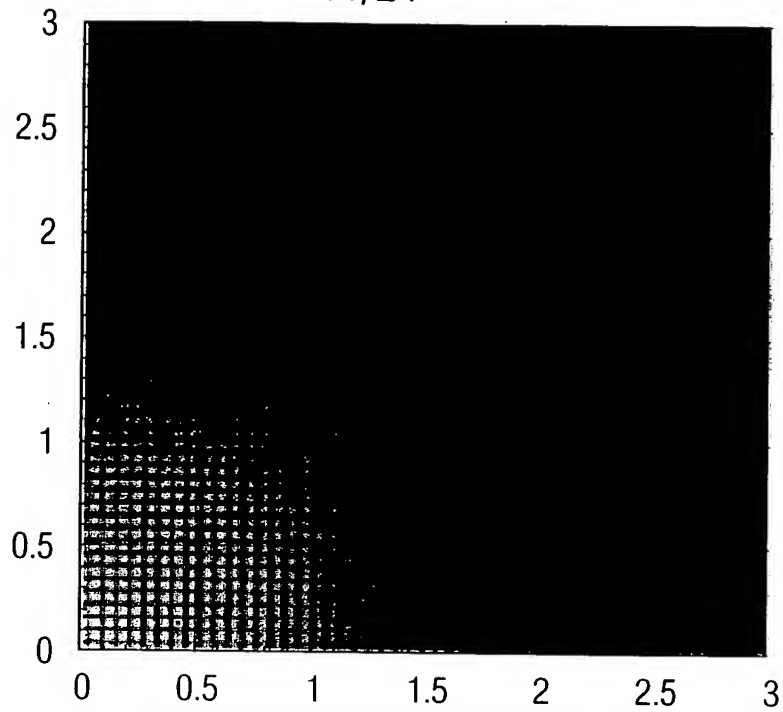
FIG. 8C1



PLANAR SILICON WITH 500 Å AI OVERCOAT

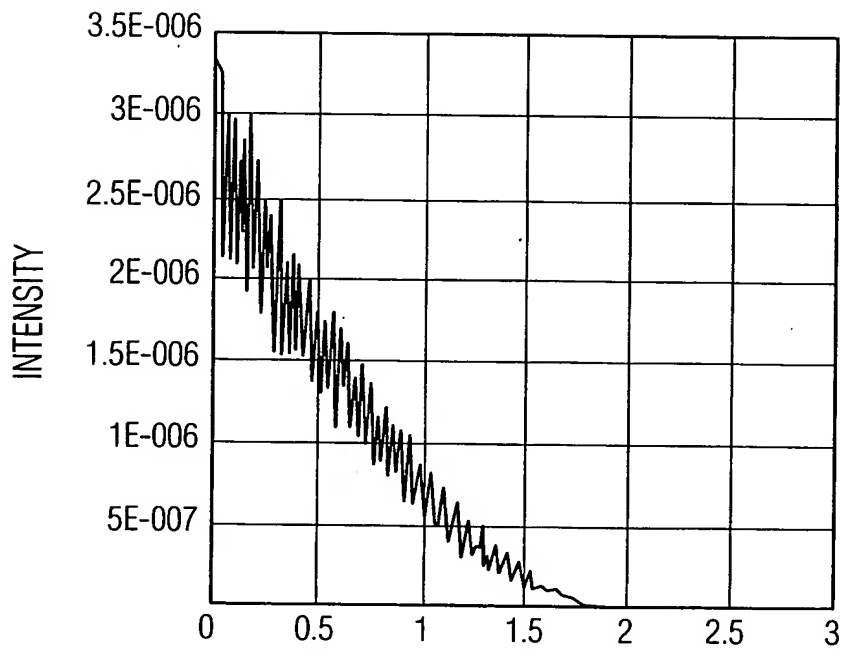
FIG. 8C2

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PIT WITH DEPTH TO PITCH RATIO OF 1 (6 $\mu$ m PITCH PIT)

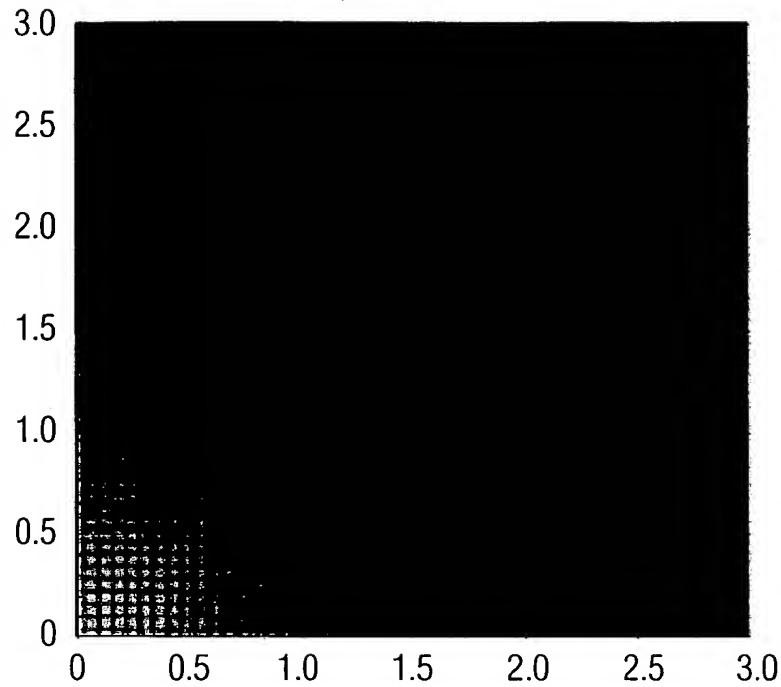
FIG. 8D1



PIT WITH DEPTH TO PITCH RATIO OF 1 (6 $\mu$ m PITCH PIT)

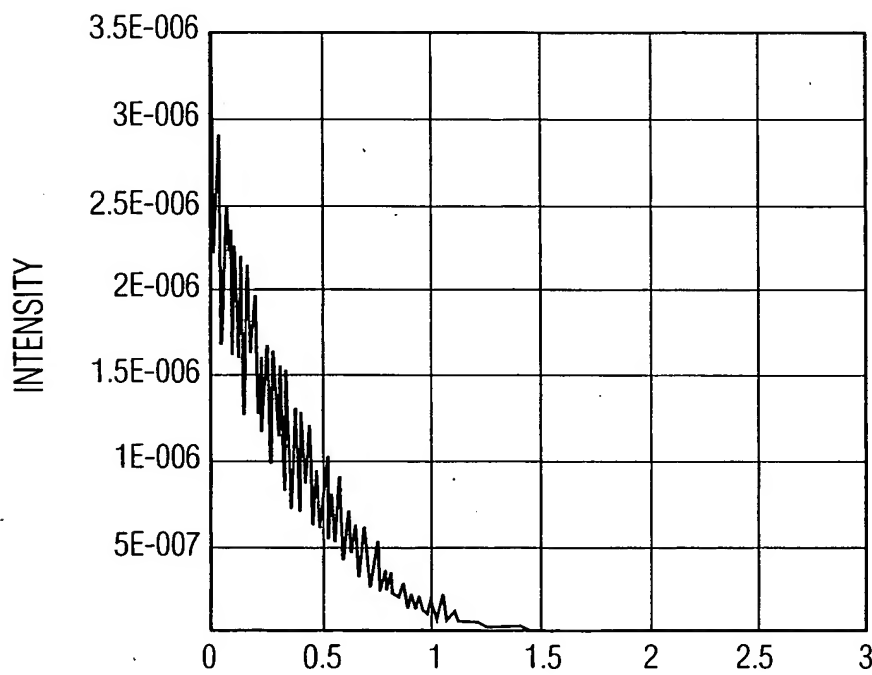
FIG. 8D2

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PIT WITH DEPTH TO PITCH RATIO OF 2 (6 $\mu$ m PITCH PIT)

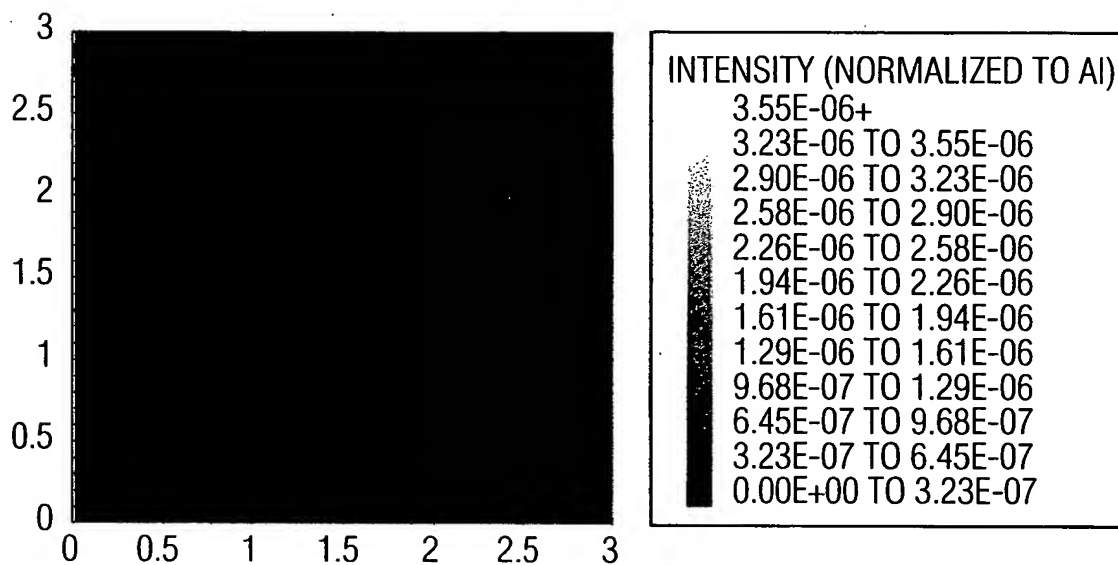
FIG. 8E1



PIT WITH DEPTH TO PITCH RATIO OF 2 (6 $\mu$ m PITCH PIT)

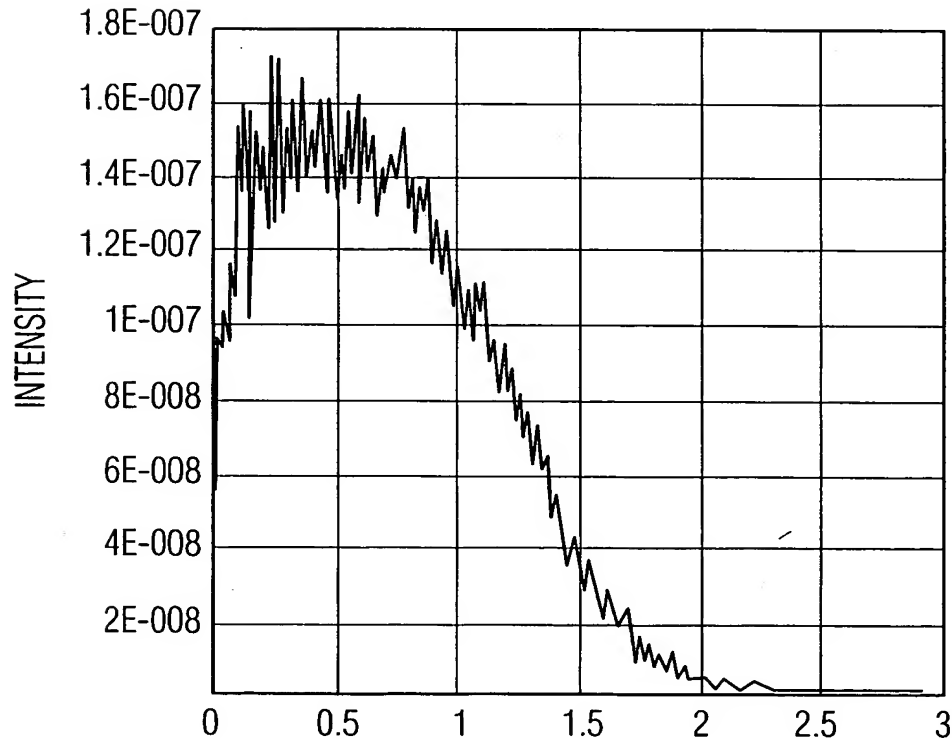
FIG. 8E2

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INVERTED PYRAMID (6 MICRON PITCH)

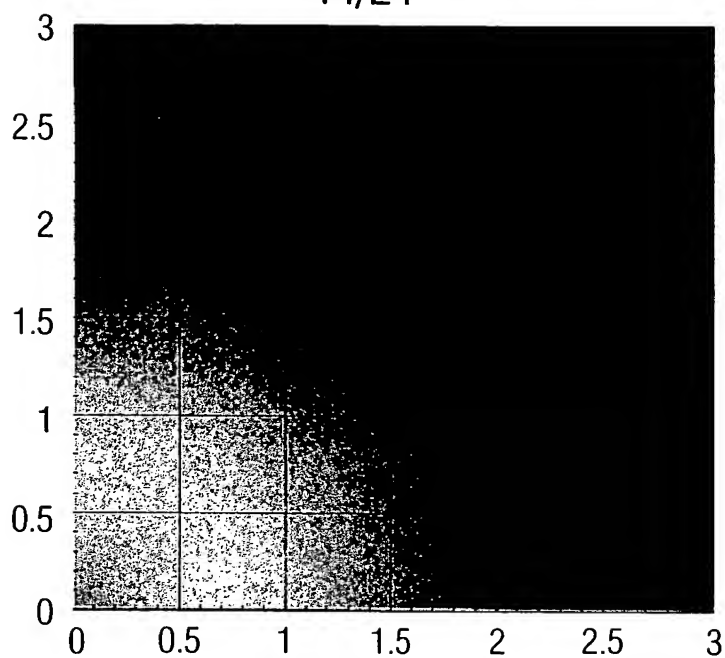
FIG. 8F1



INVERTED PYRAMID (6 MICRON PITCH)

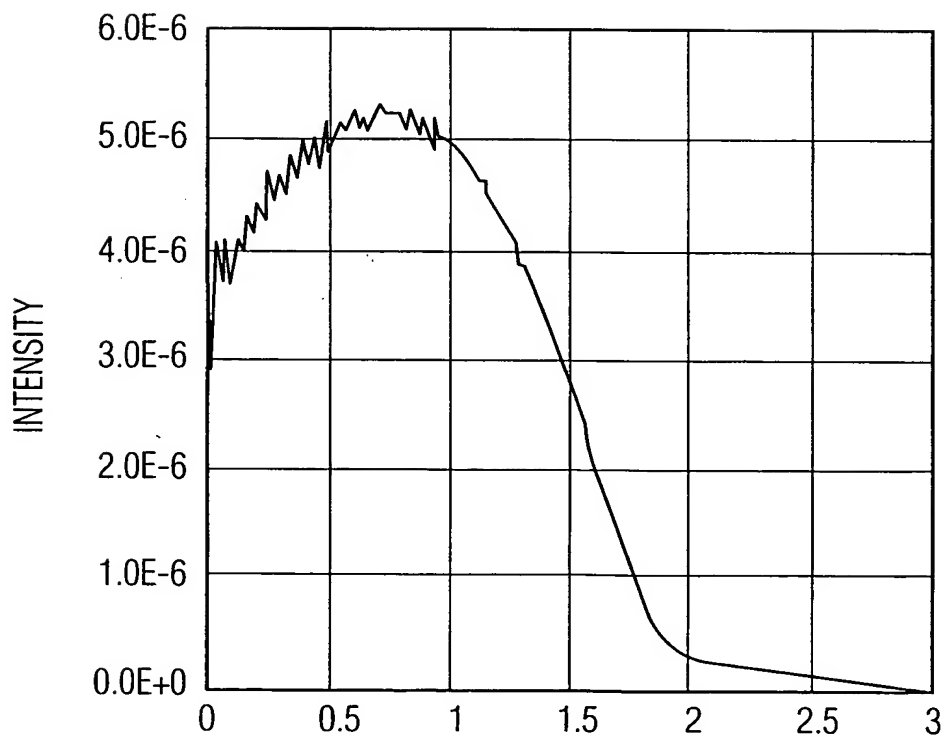
FIG. 8F2

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PLANAR SILICON

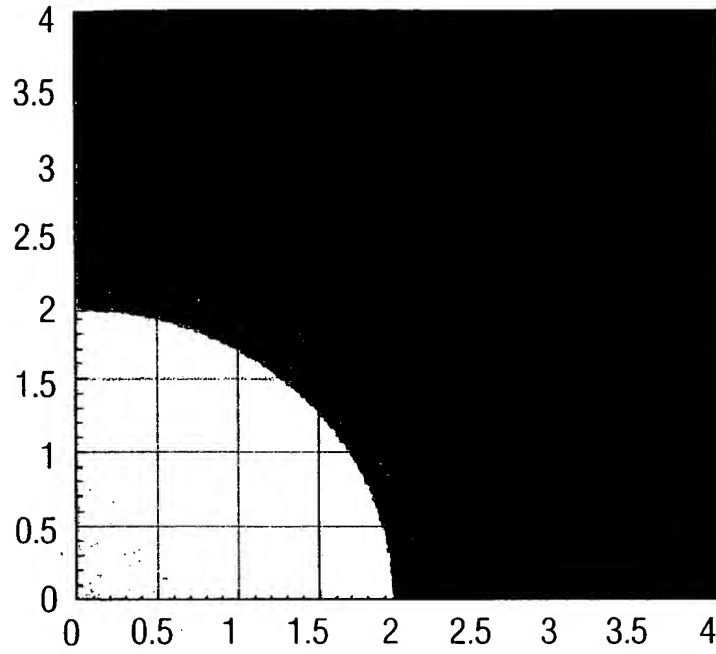
FIG. 9A1



PLANAR SILICON

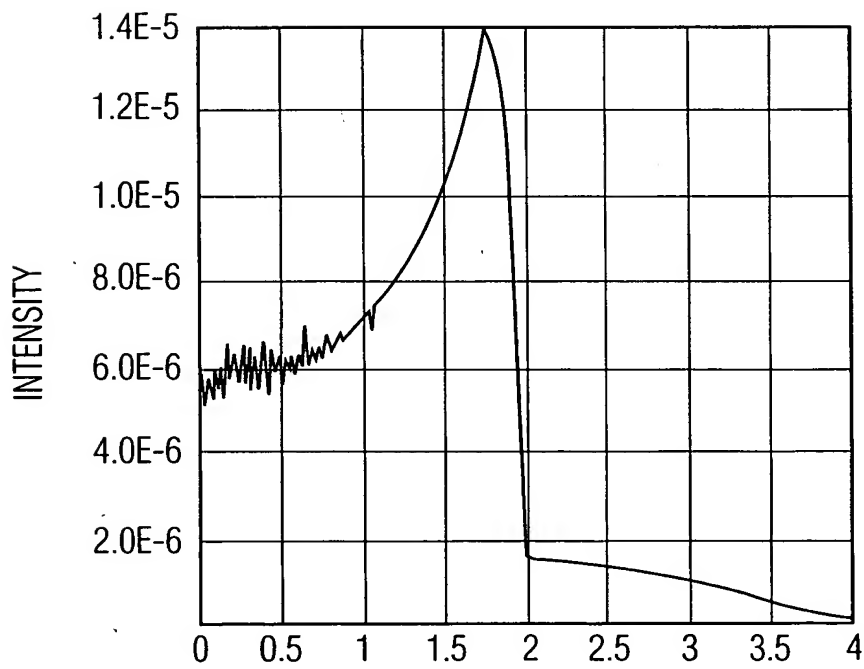
FIG. 9A2

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PLANAR SILICON WITH 500 Å Au

FIG. 9B1

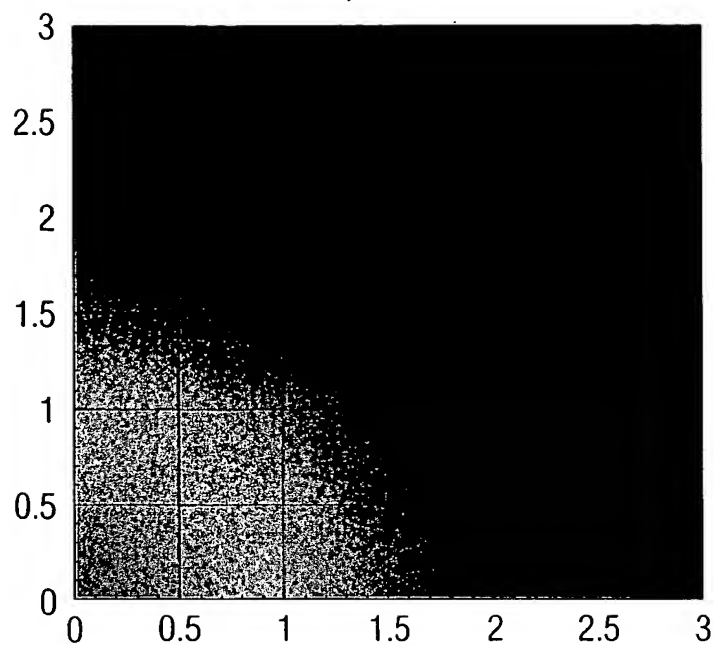


PLANAR SILICON WITH 500 Å Au

FIG. 9B2

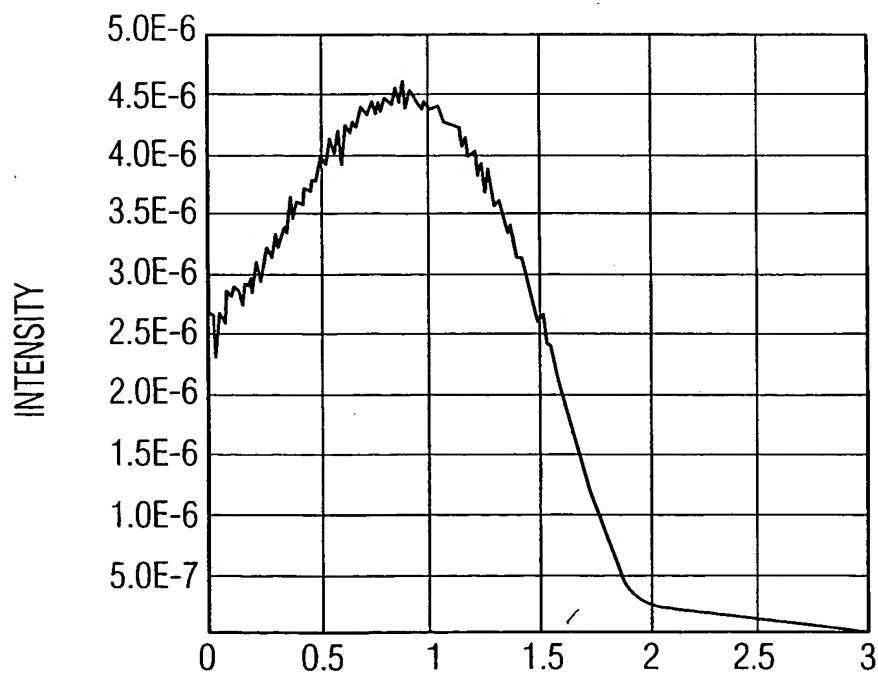


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PLANAR SILICON WITH 500 Å Al

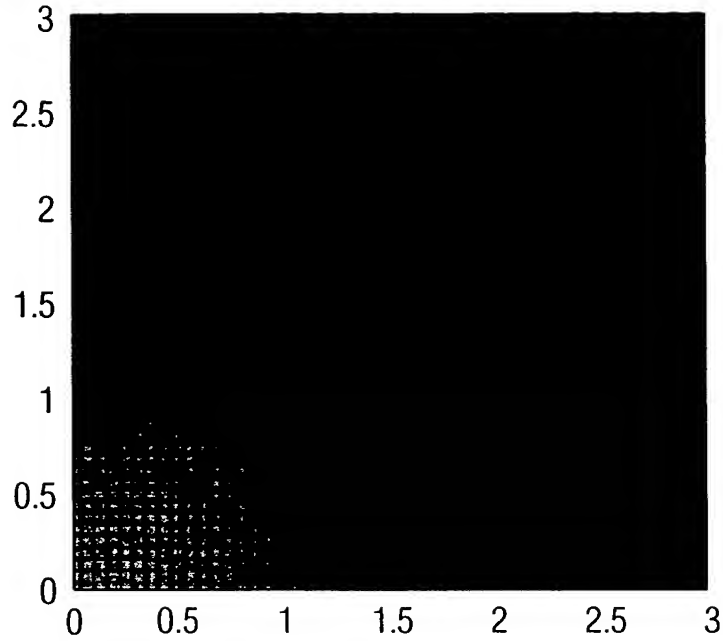
FIG. 9C1



PLANAR SILICON WITH 500 Å Al

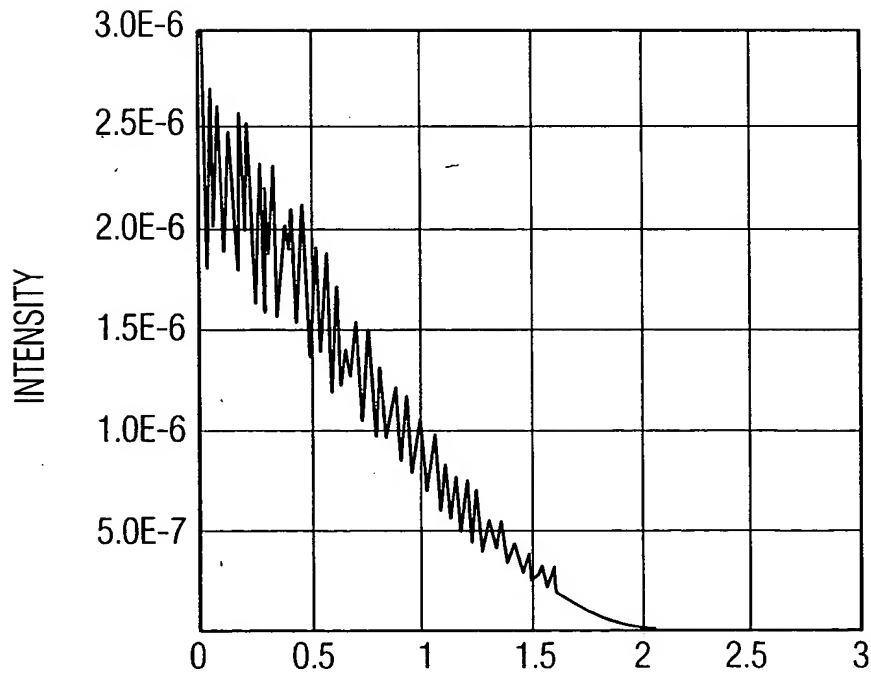
FIG. 9C2

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PIT WITH DEPTH TO PITCH RATIO OF 1

FIG. 9D1



PIT WITH DEPTH TO PITCH RATIO OF 1

FIG. 9D2

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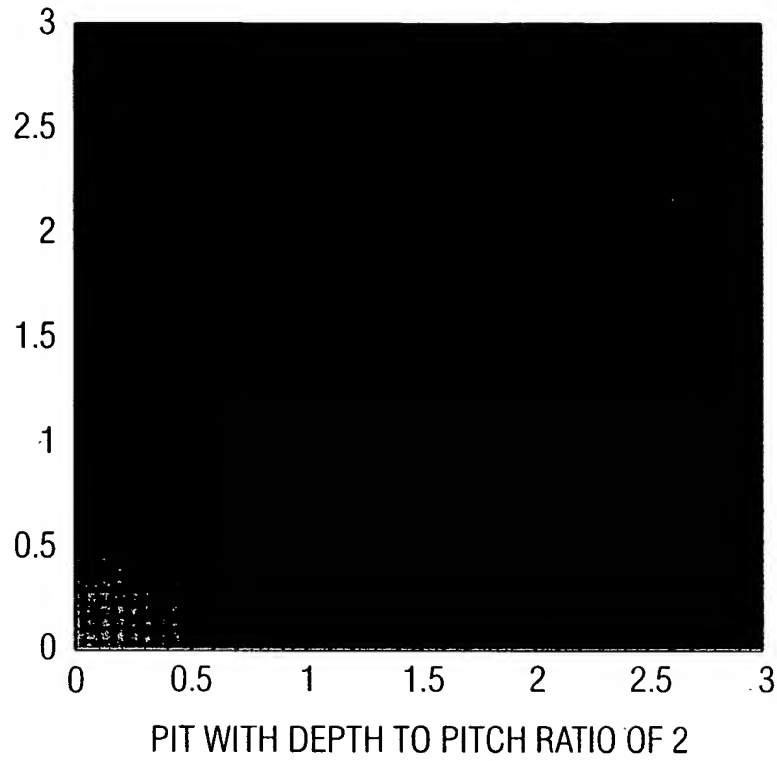


FIG. 9E1

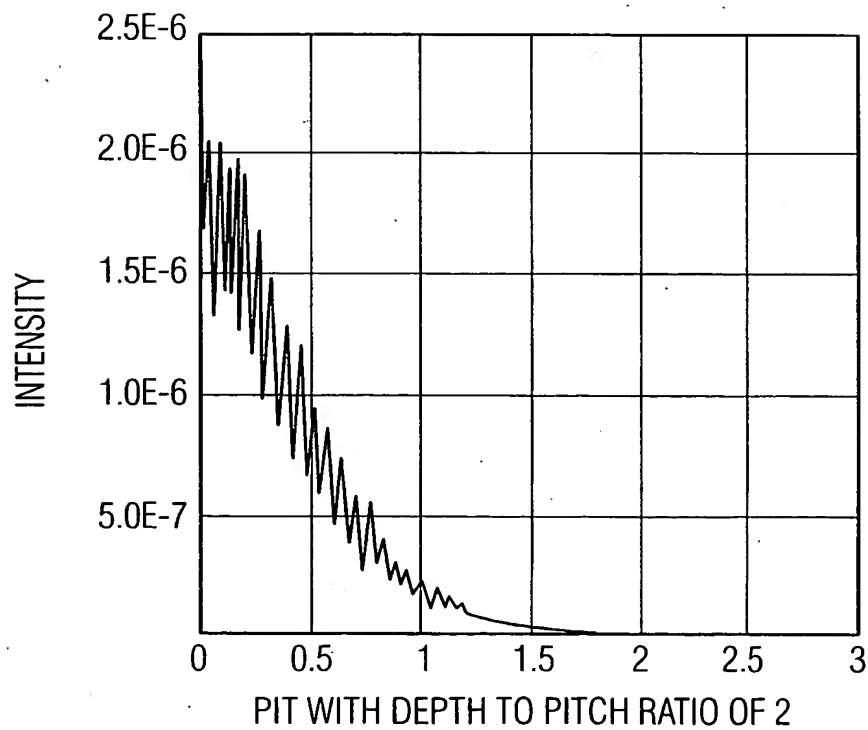
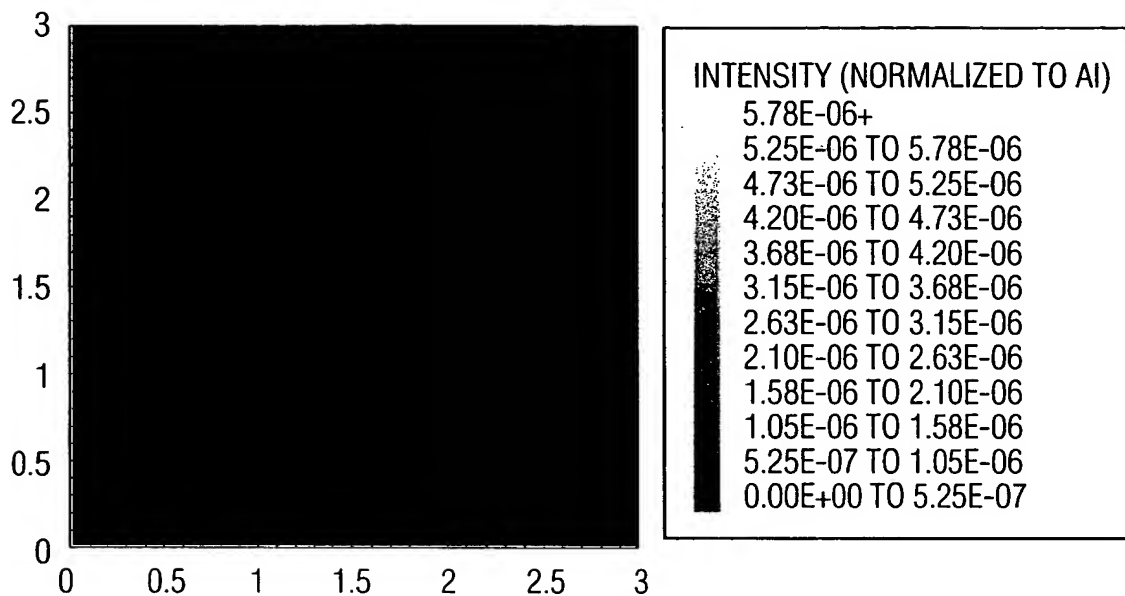


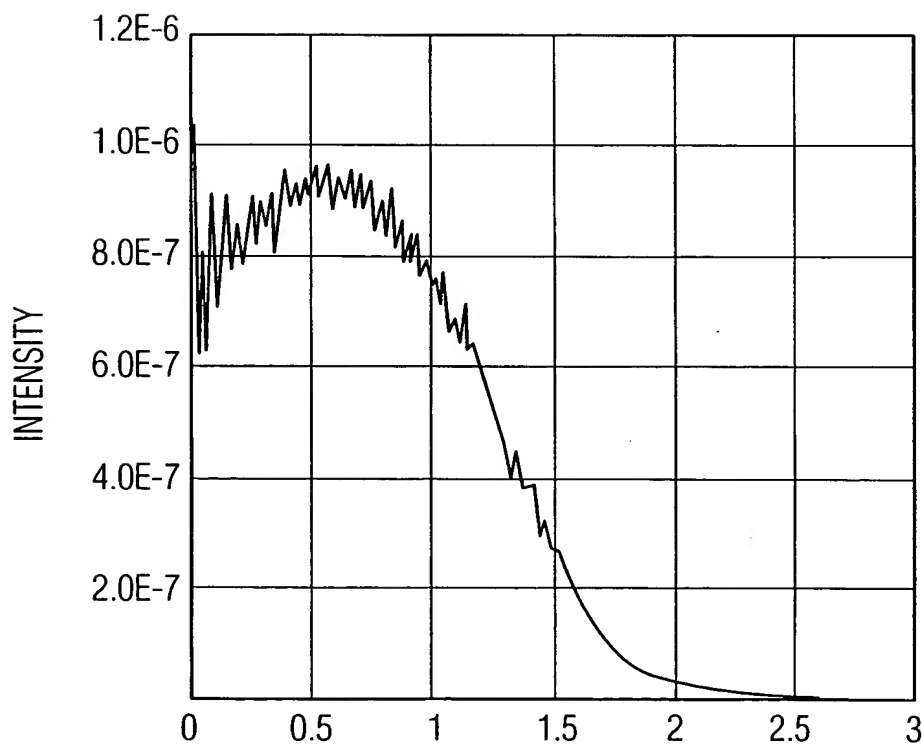
FIG. 9E2

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INVERTED PYRAMIDS

FIG. 9F1



INVERTED PYRAMIDS

FIG. 9F2

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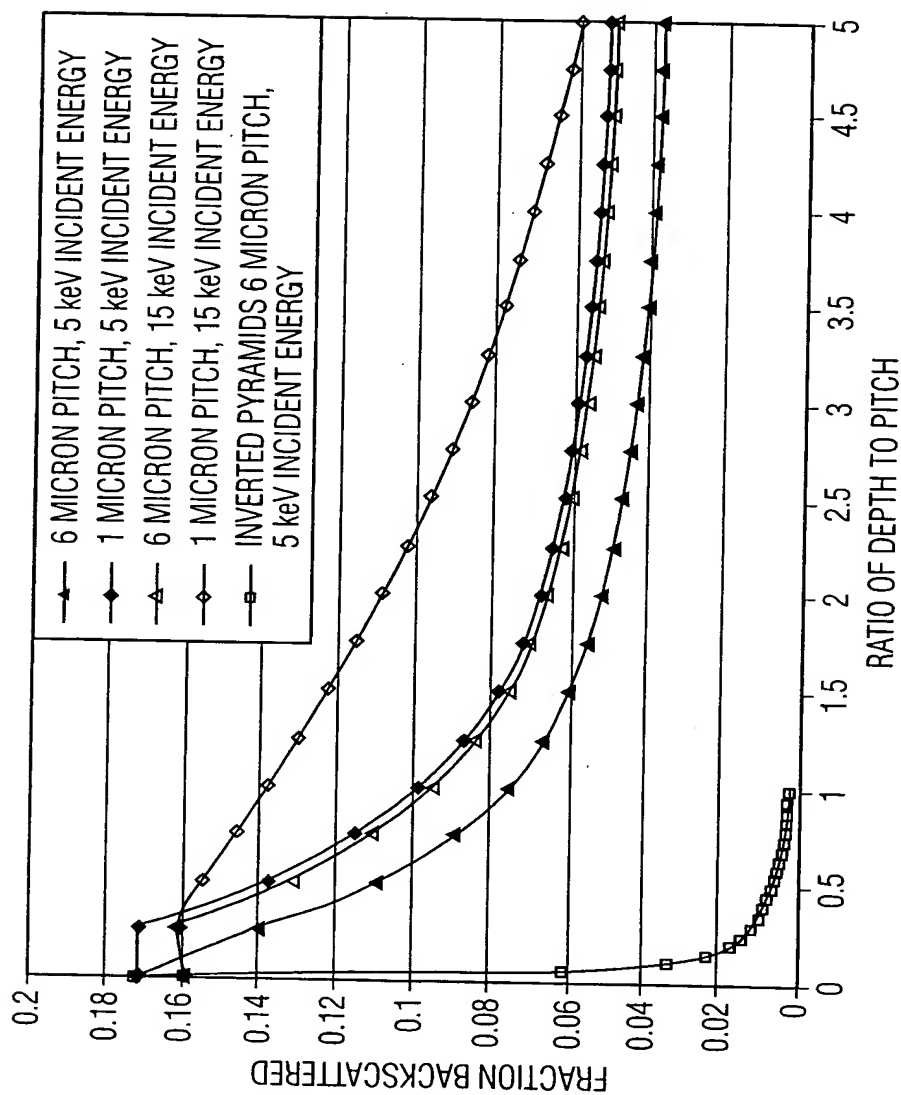


FIG. 10

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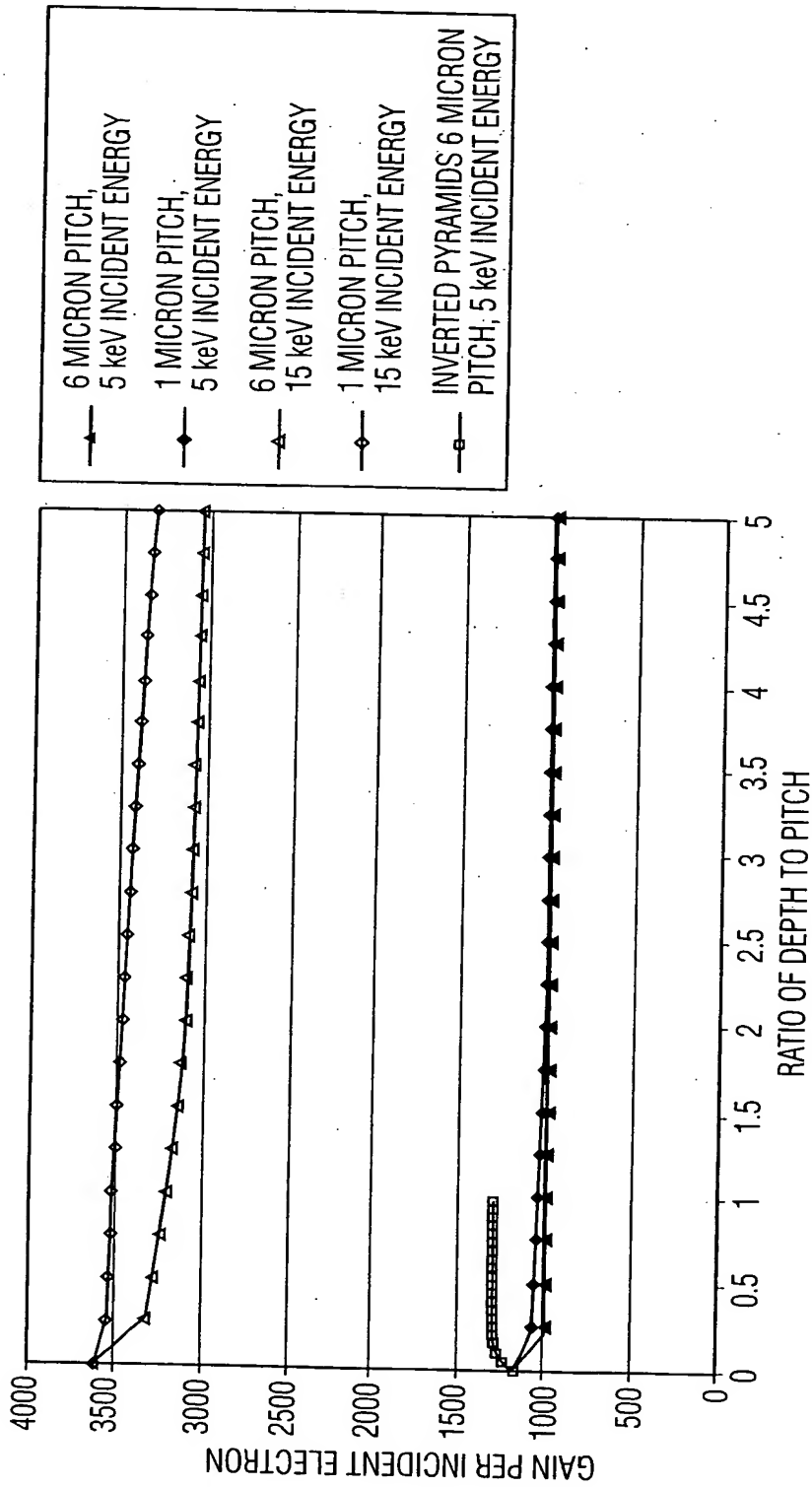


FIG. 11

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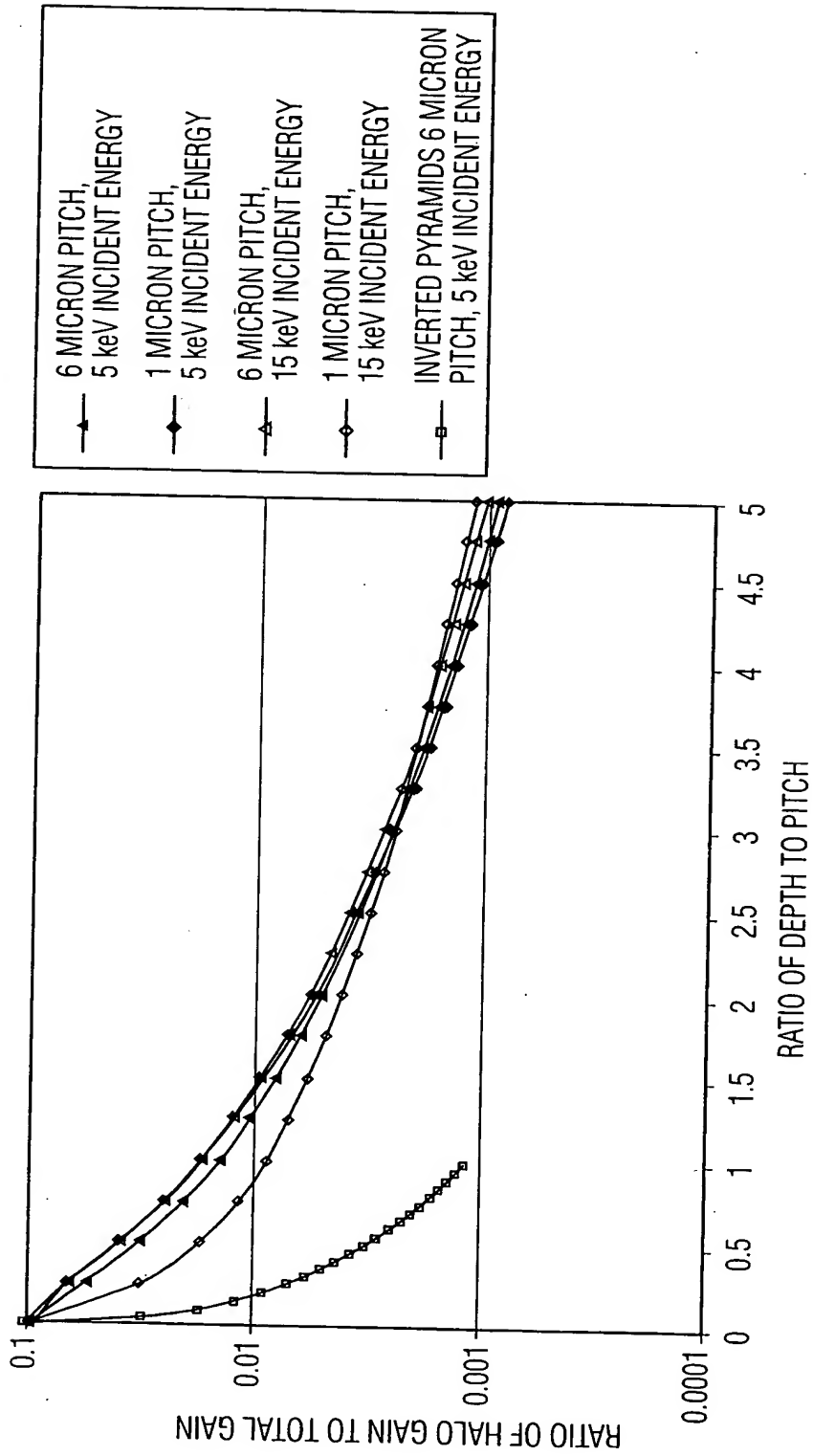
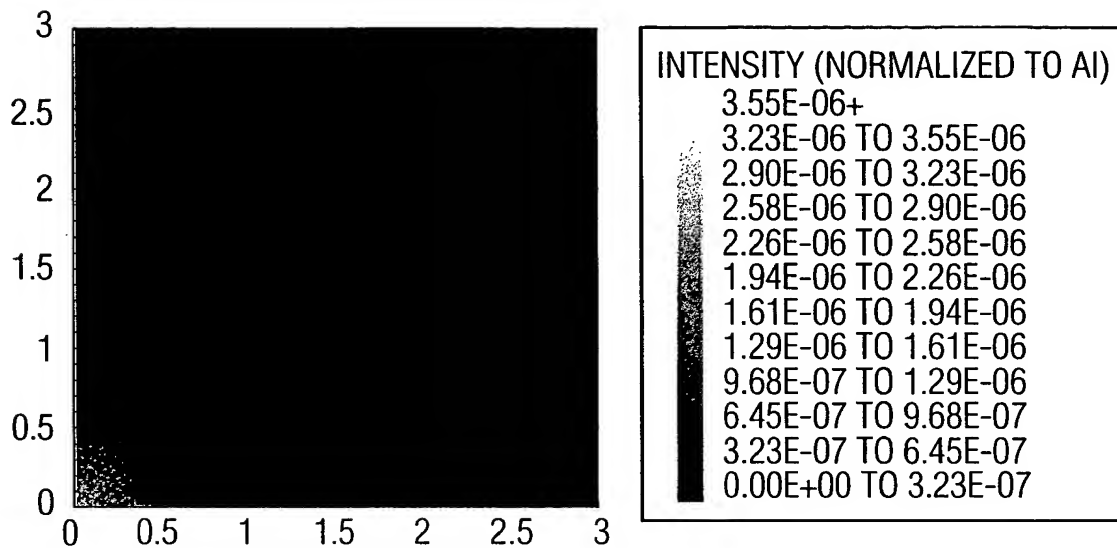


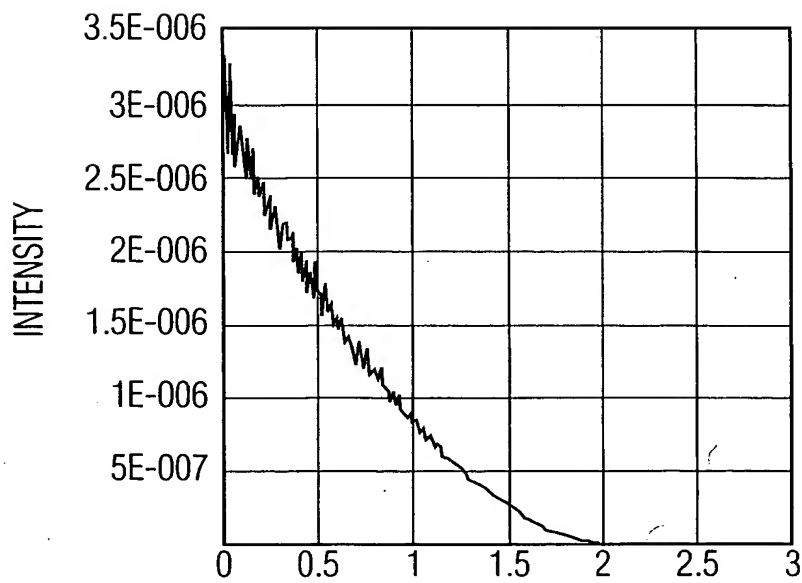
FIG. 12

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1 $\mu$ m PITCH PITS, DEPTH TO PITCH RATIO OF 1

FIG. 13A1

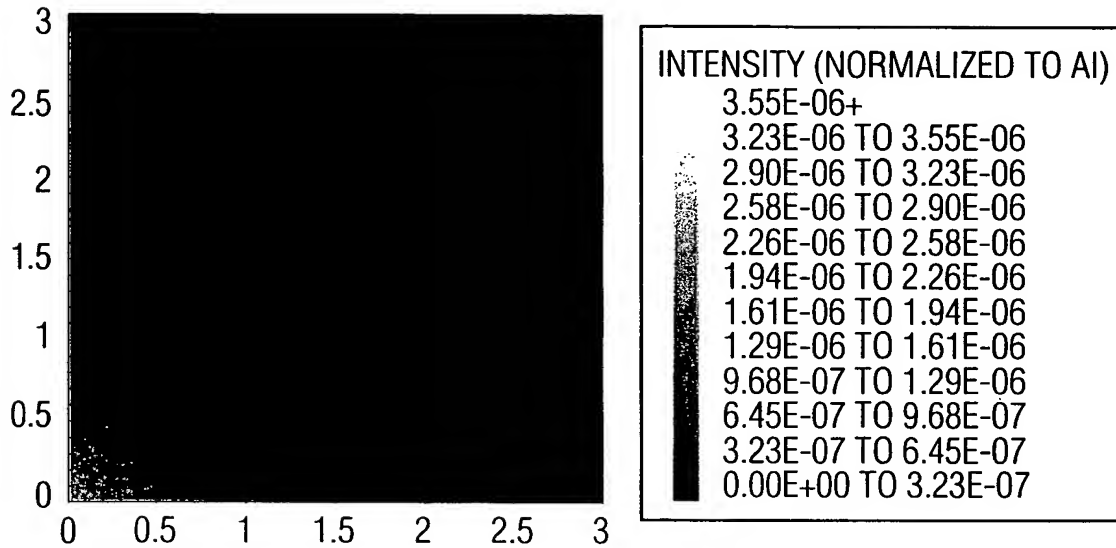


1 $\mu$ m PITCH PITS, DEPTH TO PITCH RATIO OF 1

FIG. 13A2

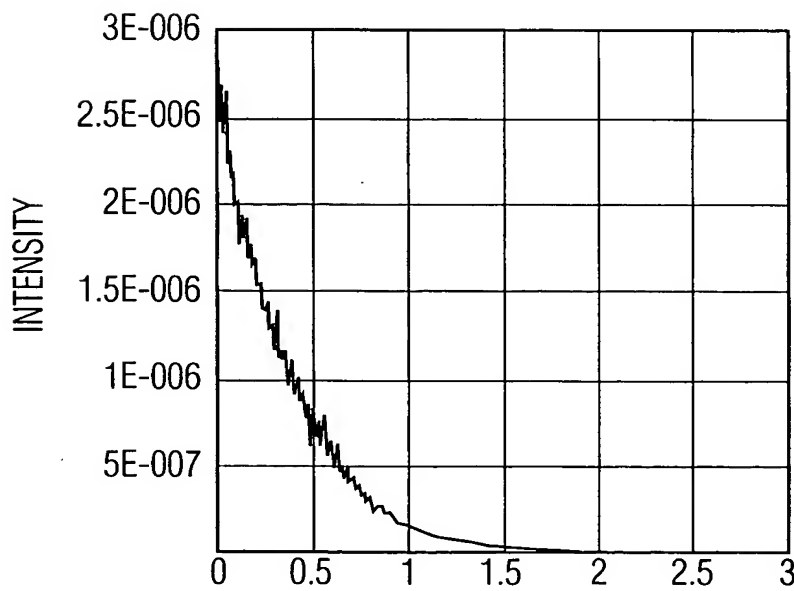


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1 $\mu$ m PITCH PITS, DEPTH TO PITCH RATIO OF 2

FIG. 13B1



1 $\mu$ m PITCH PITS, DEPTH TO PITCH RATIO OF 2

FIG. 13B2